SM2091FX

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# Monoclonal Antibody to NKG2A/C/E - FITC

**Alternate names:** CD159a, CD159c, CD159e, NKG2 lectin-like family

**Catalog No.:** SM2091FX

**Quantity:** 0.5 mg

**Concentration:** 0.5 mg/ml

**Background:** In mice, NKG2 subunits associate with CD94 to form heterodimers at the surface of natural killer (NK) cells. The CD94/NKG2 heterodimer is the receptor for a non-classical MHC class I ligand, which is Qa-1 in the mouse.

**Host / Isotype:** Rat / IgG2a

**Clone:** 20d5

**Immunogen:** CHO transfected cells expressing the B6 allele of NKG2A. Spleen cells from immunised Lewis rats were fused with cells of the mouse P3X63-Ag8.653 myeloma cell line.

**Format:**
**State:** Liquid purified IgG
**Purification:** Affinity chromatography on Protein G
**Buffer System:** PBS, pH7.4 containing 0.09% Sodium Azide and 1% Bovine Serum Albumin
**Label:** FITC – Fluorescein Isothiocyanate Isomer 1

**Applications:** Flow Cytometry: 1/10 - 1/50; Use 10µl of the suggested working dilution to label 10e6 cells in 100µl; The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors.
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

**Specificity:** This antibody recognises NKG2A, NKG2C and NKG2E, which are isoforms of the NKG2 lectin-like family. Clone 20d5 is reported to block ligand binding to the receptor. We recommend the use of SM2091LE for this purpose.
**Species:** Mouse.
Other species not tested.

**Storage:** Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
This product is photosensitive and should be protected from light.
Shelf life: one year from despatch.

**General Readings:**
1. Vance RE, Jamieson AM, Raulet DH. Recognition of the class Ib molecule Qa-1(b) by putative activating receptors CD94/NKG2C and CD94/NKG2E on mouse natural killer cells. J Exp Med. 1999 Dec 20;190(12):1801-12. PubMed PMID: 10601355.
2. Vance RE, Jamieson AM, Cado D, Raulet DH. Implications of CD94 deficiency and monoallelic NKG2A expression for natural killer cell development and repertoire formation. Proc Natl Acad Sci U S A. 2002 Jan 22;99(2):868-73. Epub 2002 Jan 8. PubMed PMID: 11782535.